

Abstract of the Disclosure
PROPORTIONAL ACTUATOR CONTROL OF APPARATUS

Apparatus, such as a wheelchair (10) is proportionally controlled by output signals produced by an X-Y input device (26, 58, 90, 100, 110, 360, or 370), which may be attached to head (90), a hand (112) or some other body component, and which may be actuated by tilting. The output signals are conditioned prior to application to the wheelchair (10). Apparatus for conditioning the output signals includes a transistor sensitivity control (180, 382A, 382B), a transducer sensitivity adjustment (344A, 384B, or 436) a signal limiting control (226, 394, 396), a signal limiting adjustment (438), a null offset device, or null-width generator (418, 130A/#?, 150A/#?), a rate-of-change controller (144A/#?), a turn signal conditioner, or steering sensitivity control (160, 170, 398, 400, 416), a steering sensitivity adjustment (434), a nonlinear device (420) that functions as a steering sensitivity control, a nonlinearity adjustment (422) that functions as a steering sensitivity adjustment, and a microprocessor (432) that may be used to perform some, or all, of the aforesaid functions.